

BOGOMOLET'S, Aleksandr Aleksandrovich; KAVETSKIY, P.Ye., otvetstvennyy red.;
BOGOMOLET'S, O.A., prof., red.; GOREV, N.N., red.; MAKARCHENKO, A.F.,
red.; MEDVEDEVA, N.B., red.; SIROVININ, N.N., red.; SNEZHIN, M.I.,
red. izd-va; RAKHLINA, N.P., tekhn. red.

[Selected works in three volumes] Izbrannye trudy v trekh tomakh.
Kiev, Izd-vo Akad. nauk USSR, Vol.2. 1957. 477 p. (MIRA 11:10)

1. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for
Gorev, Sirotinin). 2. Deystvitel'nyy chlen Akademii USSR (for
Kavetskiy). 3. Chlen-korrespondent Akademii nauk USSR (for
Makarchenko, Medvedeva).

(PHYSIOLOGY, PATHOLOGICAL)

KAVETSKIY, Rostislav Yevgeniyevich [Kavets'kyi, R.IE.]; BALITSKIY, Konstantin Petrovich [Balyts'kyi, K.P.]; MAKARCHENKO, A.P., prof., otv.red.; NERUSH, G.I. [Nerush, H.I.], red.izd-va; SIVACHENKO, Ye.K. [Sivachenko, IE.K.], tekhn.red.

[Contribution of scientists of the Academy of Sciences of the Ukrainian S.S.R. to the development of medicine] Vklad uche-nykh Akademii nauk Ukraini'koi RSR v rozvytok medytsyny. Kyiv, Vyd-vo Akad.nauk URSR, 1957. 103 p. (MIRA 13:7)

1. Chlen-korrespondent AN USSR (for Makarchenko).
(MEDICINE) (ACADEMY OF SCIENCES OF THE UKRAINIAN S.S.R.)

01459000.28.1.1
MAKARCHENKO, O.F.

For creative development of the science of physiology. Fiziol.
zhur. [Ukr.] 3 no.5:3-17 S-O '57. (MIRA 11:1)
(PHYSIOLOGY)

USSR/Human and Animal Physiology - (Normal and Pathological).
Nervous System. Electroencephalogram of Man.

T

Abs Jour : Ref Zhur Biol., No 4, 1959, 17945

Author : Makarchenko, O.F.

Inst : -

Title : Cortical-Subcortical Relationships in Virus Neuronal Infections.

Orig Pub : Fiziol. zh., 1957, 3, No 5, 45-64

Abstract : In patients with influenza neuronal infection, insignificant disturbances of conditional-motor reactions were discovered; the electrical activity of the brain was decreased in these patients; alpha-rhythm was almost absent, small waves with a frequency of 15-18 sec./sec. were observed; beta-rhythm was somewhat increased. On the polygram, hypotension and reactivity of vessels were determined. In virus neuronal infections of non-influenza etiology, along with an expressed general cerebral

Card 1/3

USSR/Human and Animal Physiology - (Normal and Pathological).
Nervous System. Electroencephalogram of Man.

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Ats Jour : Ref Zhur Biol., No 4, 1979, 1-9-5

symptomatology, clear disturbances of closing activity, increase of external inhibition, phase conditions, inertness of stimulation process, frequent development of defensive inhibition were observed. On the EEG, hypersynchronization of low-amplitude desynchronization of alpha-rhythm, slow oscillations; on the plethysmogram, wave-like vascular background and living reaction were observed. The results of a study of skin T^0 with functional load, of thermoregulating reflex, and pharmacodynamic butane-vascular tests corresponded to the data of investigation of higher nervous activity and EEG. Apparently, in influenzal re-infection, primarily sub-cortical regions of the brain suffer; in neuroinfection of non-influenzal etiology, primary and hardest hit are cortical neurons; disturbances of activity of subcortical regions develop secondarily and are conditioned by positive

2001 4/3

- 94 -

USSR/Human and Animal Physiology - (Normal and Pathological). T
Nervous System. Electroencephalogram of Man.

Als Jour : Ref Zhur Biol., No 4, 1959, 179-80

induction of the cortex or the subcortex. -- K.S.
Ratner

Card 3/3

МАКАРЧЕНКО А.П.
MAKARCHENKO, A.P., prof. (Kiyev)

Development of Soviet neurology in the Ukraine. Vrach.delo no.12:
1259-1268 D '57. (MIRA 11:2)

1. Chlen-korrespondent AN USSR
(UKRAINE--NEUROLOGY)

MAKARCHENKO, O.F.
MAKARCHENKO, O.F.

Creative development of physiological science. Visnyk AN URSR 28 no.2:
3-16 Ag '57. (MIRA 11:1)

(Ukraine--Physiology)

FOL'BORT, G.V., akademik, otv.red.; KAVETSKIY, R.Ye., akademik, red.;
IVANOV, V.N., akademik, red.; PRIKHOD'KOVA, Ye.K., red.;
MAKARCHENKO, A.F., red.; PUTILIN, N.I., doktor med.nauk, red.;
SKLYAROV, Ya.P., doktor med.nauk, red.; TORSKAYA, I.V., starshiy
nauchnyy sotrudnik, red.; GRUDZINSKAYA, O.S., red.-izd-va;
YURCHISHIN, V.I., tekhn.red.

[Problems in the physiology of the processes of fatigue and
restoration] Voprosy fiziologii protsessov utomleniya i vos-
stanovleniya. Kiev, 1958. 242 p. (MIRA 11:12)

1. Akademiya nauk Ukrainskoy SSR. Kiev. Institut fiziologii.
 2. AN Ukrainskoy SSR (for Fol'bort, Kavetskiy, Ivanov). 3. Chlen-
korrespondent AN Ukrainskoy SSR (for Prikhod'kova, Makarchenko).
 4. Kiyevskiy meditsinskiy institut, Kafedra normal'noy fiziologii
(for Putilin). 5. L'vovskiy meditsinskiy institut, Kafedra
normal'noy fiziologii (for Sklyarov).
- (FATIGUE)

BOGOMOLETS, Aleksandr Aleksandrovich; KAVETSKIY, R.Ye., akademik, otv.red.;
BOGOMOLETS, O.A., prof., red.; GOREV, N.N., red.; MAKARCHENKO, A.P.,
red.; MEDVEDEVA, N.B., red.; SIROTININ, N.N., red.; SNEZHIN, M.I.,
red.izd-va; RAKHLINA, N.P., tekhn.red.

[Selected works in three volumes] Izbrannye trudy v trekh tomakh.
Vol.3. Kiev, Izd-vo Akad.nauk USSR. 1958. 358 p. (MIRA 12:4)

1. Akademiya nauk USSR (for Kavetskiy). 2. Deystvitel'nyye chleny
AN SSSR (for Gorev, Sirotinin). 3. Chleny-korrespondenty AN USSR
(for Makarchenko, Medvedeva).

(MEDICINE)

MAKARCHENKO, Aleksandr Fedorovich, red.

[Physiology and pathology of respiration, hypoxia and oxygen therapy] Fiziologiya i patologiya dykhanija, gipoksija i oksigenoterapija. Red.kollegija: A.F.Makarchenko, i dr. Kiyev, Izd-vo Akademii nauk USSR, 1958. 500 p. (MIRA 12:6)

1. Akademiya nauk USSR, Kiyev. Institut fiziologii.
(OXYGEN--THERAPEUTIC USE) (RESPIRATION)

MAKARCHENKO, A F

BOGOMOLETS, Aleksandr Aleksandrovich; KAVETSKIY, R.Ye., akademik, otv. red.; BOGOMOLETS, O.A., prof., red.; GOREV, N.N., red.; MAKARCHENKO, A.F., red.; MEDVEDEVA, N.B., red.; SIROTININ, N.N., red.; SNEZHIN, M.I., red.izd-vo; RAKHLINA, N.P., tekhn. red.

[Selected works in three volumes] Izbrannye trudy v trekh tomakh. Kiev, Izd-vo Akad.nauk USSR. Vol.3. 1958. 358 p.
(MIRA 13:1)

1. AN USSR (for Kavetskiy). 2. Deystvitel'nyye chleny AMN SSSR (for Gorev, Sirotinin). 3. Chleny-korrespondenty AN USSR (for Makarchenko, Medvedeva).

(MEDICINE)

SOV137-59-1-891

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, p 119 (USSR)

AUTHORS: Vasilenko, Yu.V., Makarchenko, A. F., Khizhnyakova, L. N.,
Nerubenko, A. B., Protopopova, V. P.

TITLE: Contribution to the Pathology of Chronic Manganese Poisoning of
Operators of Electrical Welding Apparatus (K klinike khronicheskoy
intoksikatsii margantsem u elektrosvarshchikov)

PERIODICAL: V sb.: Vopr. gigiyeny truda i profzabolevaniy v gornorudn ,
khim. i mashinostroit. prom-sti, Kiyev. Gosmedizdat UkrSSR, 1958,
pp 175-179

ABSTRACT: An account of the results of a study dealing with the effects of Mn on
the health of operators of electrical welding equipment during welding
operations with coated electrodes containing ferromanganese. the
studies were carried out at the Clinic of the Khar'kov Institute on
Labor Sanitation and Occupational Diseases. The nature of diseases
induced by Mn poisoning is examined together with sanitary measures
designed to protect the workers from the toxic effects of the Mn.

V K

Card 1/1

MAKARCHENKO, A.F. [Makarchenko, O.F.]

Atomic energy in biology and medicine; Second International
Conference on Peaceful Use of Atomic Energy. Fiziol. zhur. 4
no.6:849-858 N-D '68. (MIRA 12:3)
(GENEVA--RADIOACTIVE TRACERS--CONGRESSES)

MAKARCHENKO, A.F.

Second International Conference on Peaceful Uses of Atomic
Energy. Visnyk AN URSS 29 no.12:51-59 D '58. (MIRA 12:1)

1. Chlen-korrespondent AN USSR.
(Geneva--Atomic energy--Congresses)

KOMISSARENKO, V.P., akademik, otv.red.; VALUYEVA, T.K., kand.med.nauk, red.; IVANOV, V.I., akademik, red.; KAVETSKIY, R.Ye., akademik, red.; MAKARCHENKO, A.F., prof., red.; MEDVEDEVA, N.B., red.; POL'BORT, G.V., akademik, red.; SNEZHIN, M.I., red.izd-va; MILEKHIN, I.D., tekhn.red.

[Mechanism of hormone action] Mekhanizm deistviia gormonov.
Pod red. V.P.Komissarenko. Kiev, 1959. 263 p. (MIRA 12:8)

1. Akademiya nauk USSR, Kiyev. Institut fiziologii. 2. AN USSR (for Komissarenko, Ivanov, Kavetskiy, Pol'bort). 3. Chlen-korrespondent AN USSR (for Makarchenko, Medvedeva). 4. Institut fiziologii im. A.A.Bogomol'tsa AN USSR (Kiyev) (for Komissarenko, Valuyeva).

(HORMONES)

MAN'KOVSKIY, Nikita Borisovich, dotsent; MAKARCHENKO, A.F., red.;
GITSHTEYN, A.D., tekhn.red.

[Rheumatic encephalitis] Revmaticheskii entsefalit. Kiev,
Gos.med.izd-vo USSR, 1959. 293 p. (MIRA 13:3)
(RHEUMATIC FEVER) (ENCEPHALITIS)

MAKARCHENKO, A.F., prof. (Kiyev)

Atomic energy in biology and medicine. Vrach.delo no.3:319-
322 Mr '59. (MIRA 12:6)

1. Delegat Vtoroy mezhdunarodnoy konferentsii po mirnomy ispol'-
zovaniyu atomnoy energii v mirnykh tselyakh, Chlen-korrespondent
AN USSR.

(GENEVA--ATOMIC ENERGY--CONGRESSES) (ATOMIC MEDICINE)

MAKARCHENKO, A.F. [Makarchenko, O.F.]; ZLATIN, R.S.

Changes in the higher nervous activity of dogs produced by
chronic exposure to small doses of ionizing radiation.
Fiziol.zhur.[Ukr.] 5 no.1:16-23 Ja-F '59. (MIRA 12:5)

1. Institut fiziologii im. A.A.Bogomol'tsa AN USSR.
(GAMMA RAYS--PHYSIOLOGICAL EFFECT) (CONDITIONED RESPONSE)

MAKARCHENKO, A.F. [Makarchenko, O.F.]; ROYTRUB, B.A.

Electrophoretic study of serum protein fractions in patients with
neural infections. Fiziol.zhur.[Ukr.] 5 no.4:519-528 J1-Ag
'59. (MIRA 12:11)

1. Institut fiziologii im. A.A.Bogomol'tsa AN USSR, otdel
eksperimental'noy i klinicheskoy nevrologii.

(BLOOD PROTEINS)

(NEUROSIS)

(PAPER ELECTROPHORESIS)

MAKARCHENKO, A.F. [Makarchenko, O.F.]; SIROTINA, M.F. [Syrotina, M.F.];
ZLATIN, R.S.

Changes in the morphological composition of the peripheral blood
in dogs of different types of higher nervous activity as affected
by long-term external irradiation with small doses of gamma rays
(Co⁶⁰). Fiziol.zhur. [Ukr.] 5 no.6:769-774 N-D '59. (MIRA 13:4)

1. Institut fiziologii im. A.A. Bogomol'tsa Akademii nauk USSR.
(BLOOD--ANALYSIS AND CHEMISTRY) (GAMMA RAYS--PHYSIOLOGICAL EFFECT)

MAKARCHENKO, O.F.

For human health. Nauka i zhyttia 9 no.5:25-29 My '59.
(MIRA 12:9)

1. Chlen-korrespondent AN USSR; direktor Instituta fiziologii
imeni O.O.Bogomol'tsa.
(NEUROPATHOLOGY)

MAKARCHENKO, A.F., prof.; DINABURG, A.D., prof.

Adenosinetriphosphoric acid in the treatment of infectious diseases
of the nervous system. Vrach.delo no.10:1009-1012 0 '59.

(MIRA 13:2)

1. Otdel klinicheskoy i eksperimental'noy nevrologii (zaveduyushchiy -
chlen-korrespondent AN USSR, prof. A.F. Makarchenko) Instituta fizio-
logii AN USSR.

(ADENOSINTERIPHOSPHORIC ACID) (NERVOUS SYSTEM--DISEASES)

GOREV, N.N., otv.red.; MAKARCHENKO, A.F., red.; CHERKES, A.I., red.;
GUREVICH, M.I., doktor med.nauk, red.; FROL'KIS, V.V., doktor
med.nauk, red.; KONDRATOVICH, M.A., kand.med.nauk, red.; SHEZHIN,
M.I., red.izd-va; YEFIMOVA, M.I., tekhn.red.

[Problems in the physiology and pathology of coronary circulation]
Voprosy fiziologii i patologii koronarnogo krovoobrashcheniia.
Kiev, 1960. 149 p.
(MIRA 13:7)

1. Akademiya nauk USSR, Kiyev, Institut fiziologii. 2. Deystvi-
tel'nyy chlen AMN SSSR (for Gorev). 3. Chlen-korrespondent AN USSR
(for Makarchenko). 4. Chlen-korrespondent AMN SSSR (for Cherkas).
5. Institut fiziologii im. A.A.Bogomol'tsa AN USSR (Kiyev) (for
Gurevich). 6. Kiyevskiy meditsinskiy institut im. A.A.Bogomol'tsa
(for Frol'kis).

(CORONARY VESSELS)

MAKARCHENKO, A.F. [Makarchenko, O.F.]

Creative development of physiology. Fiziol.zhur. [Ukr.] 6 no.2:
153-158 Mr-Apr '60. (MIRA 13:7)

1. Direktor Instituta fiziologii im. A.A. Bogomol'tsa AN USSR.
(PHYSIOLOGY)

LUR'YE, Aleksandr Yudimovich, prof., vrach (1897-1958); MAKARCHENKO, A.F., prof., otv. red.; YEVDOKIMOV, A.I., kand. med. nauk, red.; KALINICHENKO, T.Ya., kand. med. nauk, red.; KRUPKO, Yu.A., kand. med. nauk, red.; LOGUNOVA, A.G., kand. med. nauk, red.; PAP, A.G., kand. med. nauk, spets. red.; PANCHENKO, N.I., kand. med. nauk, red.; SAVITSKIY, V.N., doktor med. nauk, prof., red.; SVESHNIKOVA, N.V., kand. med. nauk, red.; TEL'NOVA, R.I., kand. med. nauk, red.; TIMOSHENKO, L.V., kand. med. nauk, spets. red.; YANKELEVICH, Ye.Ya., prof., red.; YANKOVSKAYA, Z.B., red. izd-va; MATVEYCHUK, A.A., tekhn. red.

[Selected works] Izbrannye trudy. Kiev, Izd-vo Akad. nauk USSR.
1960. 425 p. (MIRA 14:7)

1. Chlen-korrespondent Akademii nauk USSR (for Lur'ye, Makarchenko)
(GYNECOLOGY)

MAKARCHENKO, A.F. [Makarchenko, O.F.]

The materialistic principle of considering the brain structure as the basis of the theory of the higher nervous activity. Fiziol. zhur. [Ukr.] 6 no. 5:563-570 S-O '60. (MIRA 13:10)

1. Institut fiziologii im. A.A. Bogomol'tsa Akademii nauk USSR, Kiyev.

(CEREBRAL CORTEX)

MAKARCHENKO, A.F. [Makarchenko, O.F.]; DINABURG, A.D. [Dinaburg, H.D.]

Influenza as an etiological and provoking factor in the development of diseases of the nervous system. Fiziol. zhur. [Ukr.] 6 no. 5:630-642 S-O '60. (MIRA 13:10)

1. Otdel klinicheskoy i eksperimental'noy patologii nervnoy sistemy Instituta fiziologii im. A.A. Bogomol'tsa Akademii nauk USSR.

(NERVOUS SYSTEM--DISEASES) (INFLUENZA)

MAKARCHENKO, O.F.

Creative plans of physiologists. Nauka i zhyttia 10 no.1:33
Ja '60. (MIRA 13:6)

1. Chlen-korrespondent AN USSR, direktor Instituta fiziologii
im.A.A. Bogomol'tsa AN USSR.
(UKRAINE—PHYSIOLOGY)

MAKARCHENKO, A.F., prof.; DINABURQ, A.D., prof. (Kiyev)

Role of disturbances of the cortical and subcortical activity in the change in vascular reactions during infectious diseases of the nervous system. Vrach. delo no.2:9-14 F '61. (MIRA 14:3)

1. Institut fiziologii im. A.A.Bogomol'tsa AN USSR. 2. Chlen-korrespondent AN USSR (for Makarchenko).
(NERVOUS SYSTEM—DISEASES) (CEREBRAL CORTEX)

MAKARCHENKO, A.F., akademik

Scientific views of Academician A.A.Bogomolets and the trend of
his works. Vrach. delo no.5:9-15 My '61. (MIRA 14:9)

1. Institut fiziologii imeni A.A.Bogomol'tsa AN USSR. Akademiya
nauk USSR.

(BOGOMOLETS, ALEKSANDR ALEKSANDROVICH, 1881-1946)

MAKARCHENKO, A.F. [Makarchenko, O.F.]

A.A.Bogomolets as an outstanding scientist, philosopher, and
public man. Fiziol. zhur. [Ukr.] 7 no.3:301-310 My-Je '61.
(MIRA 14:5)

1. Institut fiziologii im. A.A.Bogomol'tsa AN USSR, Kiyev.
(BOGOMOLETS, ALEKSANDR ALEKSANDROVICH, 1881-1946)

MAKARCHENKO, A.F. [Makarchenko, O.F.]; KOLCHINSKAYA, A.Z. [Kolchyns'ka, A.Z.]

Some results of research on the higher nervous activity in man.
Fiziol. zhur. [Ukr.] 7 no.4:443-449 J1-Ag '61. (MIRA 14:7)

1. Institut fiziologii im. A.A.Bogomol'tsa AN USSR, Kiyev.
(BRAD')

MAKARCHENKO, A.F. [Makarchenko, O.F.]; PASTERNAK, M.N.; DINABURG, A.D.
[Dynaburh, H.D.]; MEL'NICHENKO, A.V. [Mel'nychenko, H.V.]

Role of the influenza virus in the development of diseases of
the nervous system. Fiziol. zhur. [Ukr.] 7 no.6:732-744 N-D
'61. (MIRA 15:3)

1. Otdel nevrologii i neyrofiziologii Instituta fiziologii
im. A.A. Bogomol'tsa AN USSR, Kiyev.
(INFLUENZA)
(BRAIN--DISEASES)

MAKARCHENKO, A.F.; ZLATIN, R.S.; SIROTINA, M.F.

Change in higher nervous activity and in the peripheral blood
picture during prolonged gamma-ray irradiation (Co^{60}) of dogs.
Zhur. vys. nerv. deiat. 11 no.5:895-901 S-O '61. (MIRA 15:1)

1. Bogomolets Institute of Physiology, Ukrainian Academy of Sciences,
Kiyev.

(GAMMA RAYS—PHYSIOLOGICAL EFFECT) (NERVOUS SYSTEM)
(CONDITIONED RESPONSE) (BLOOD)

MAKARCHENKO, O.F., akademik

Thoughts about the flight of YU.G. Gagarin. Nauka i zhyttia 11 no. 7:127-13 J1 '61. (1961 14:6)

1. AN Ukrainskoy SSR.
(Astronautics)

MAKARCHENKO, O.F., akademik; DANILEYKO, V.I. [Danyleiko, V.I.],
nauchnyy sotrudnik

Weightlessness. Nauka i zhyttia 11 no.12:12-14 1961.

(MIRA 15:2)

1. AN USSR (for Makarchenko). 2. Institut fiziologii imeni
A.A. Bogomol'tsa AN USSR (for Danileyko).

(WEIGHTLESSNESS)

(SPACE MEDICINE)

PHASE I BOOK EXPLOITATION

SOV/6205

Makarchenko, A. F., Resp. Ed.

Osnovnyye voprosy elektrofiziologii tsentral'noy nervnoy sistemy
(Basic Problems in the Electrophysiology of the Central Nervous System) Kiyev, Izd-vo AN UkrSSR, 1962. 231 p. Errata slip inserted. 1600 copies printed.

Sponsoring Agency: Vsesoyuznoye fiziologicheskoye obshchestvo im. I. P. Pavlova. Institut fiziologii im. A. A. Bogomol'tsa Akademii nauk USSR.

Eds.: A. F. Makarchenko, Resp. Ed.; D. S. Vorontsov, P. G. Kostyuk, F. N. Serkov; Resp. Secretary: I. P. Semenyutin; Tech. Ed.: Yu. M. Bokhno.

PURPOSE: This book is intended for physiologists who are interested in recent advances in electrophysiology.

Card 1/8

Basic Problems in the (Cont.)

SOV/6205

COVERAGE: The present book is a collection of articles presented at the Symposium on Electrophysiology held in Kiyev on 1-2 July 1961. The articles in the collection are grouped into the following sections: 1) Electrophysiology of neurons (sensory, motor, and relay neurons of the spinal cord, and neurons of the retina); 2) Induced electrical potentials of the cerebral cortex; and 3) Background rhythms of the cerebral cortex. References are given following the individual chapters. No personalities are mentioned.

TABLE OF CONTENTS:

General Problems of Neuron Electrophysiology (P. G. Kostyuk, Kiyev)	5
Electrophysiology of Retinal Neurons (A. L. Byzov, Moscow)	29
Electrophysiology of Neurons of the Spinal Ganglia of Frogs (A. A. Lev, Leningrad)	40
Card ² 4 ₀	

MAKARCHENKO, A.F. [Makarchenko, O.F.]; FUDEL'-OSIPOVA, S.I. [Fudel'-Osypova,
S.I.]; KOSTYUK, P.G. [Kostiuk, P.H.]

Danylo Semenovych Vorontsov; on his 75th birthday. Fiziol. zhur.
[Ukr.] 8 no.1:3-12 Ja-F '62. (MIRA 15:2)
(VORONTSOV, DANYLO SEMENOVYCH, 1886-)

MAKARCHENKO, A.F. [Makarchenko, O.F.]; PASTERNAK, M.N.; DINABURG, A.D.;
MEL'NICHENKO, A.V. [Mel'nychenko, H.V.]; ZLEBANOVA, L.B.

Experimental allergic encephalomyelitis. Fiziol. zhur.
[Ukr.] 8 no.3:292-308 My-Je '62. (MIRA 15:6)

1. Otdel nevrologii i nevrofiziologii Instituta fiziologii
im. Bogomol'tsa AN USSR, Kiyev.

(ENCEPHALOMYELITIS)

(ALLERGY)

27.2450
S/238/62/008/005/001/001
D267/D308

AUTHORS: Zlatin, R.S., Makarchenko, O.F. and Sirotina, M.P.

TITLE: Characteristics of physiological and biochemical shifts associated with the protracted action of small doses of Co⁶⁰ gamma-rays on organisms

PERIODICAL: Fiziologichnyy zhurnal, v. 8, no. 5, 1962, 567-571

TEXT: The authors have been prompted to carry out this research by their earlier results relating to neurological and hematological changes observed in personnel working under conditions of chronic exposure to ionizing radiation. The higher nervous activity (using the alimentary secretion method) the composition of peripheral blood and some biochemical factors were studied in six dogs (4 experiment animals and 2 controls), the experiment animals being subjected to chronic whole-body irradiation with very small doses (0.05 r during 6 hours) of the Co⁶⁰ gamma radiation. The experiment lasted 3 years. Three characteristic stages could be found in the changes of higher nervous activity: (1) the

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S/238/62/008/005/001/001
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Characteristics of ...

first stage lasts $1\frac{1}{2}$ to 2 months and is characterized in the case of strong-type dogs by the variation of positive conditioned reflexes within the standard limits, the lower limit being steadily approached, and by a certain extension of the latent period of these reflexes; for the weak-type dogs the positive conditioned reflexes first increase and then revert to the initial value, while the latent period is shortened; (2) the second stage lasts from 7 to 10 months and is characterized by the decrease of positive conditioned reflexes and by further extension of the latent period; (3) the third stage (which lasted to the end of the experiment) is characterized by the low level of reflexes, their latent period being longer than the initial value. Internal inhibition was enhanced in the second stage, and manifestly disturbed in the third stage. During the period after irradiation the experiment animals disclosed a persistent increase of positive reflexes and further disturbance of internal inhibition (in 2 dogs out of 3 surviving dogs, one having died from pneumonia). The hematological changes are characterized by a drop of leucocyte count the the lower limit of the norm during the last 8 months of irradiation,

Card 2/3

Characteristics of ...

S/238/62/008/005/001/001
D267/D308

by a polycythemic reaction, an increase in the number of thrombocytes from the 5th to the 30th month of irradiation, and by the absence of degenerative changes. The beta activity of the whole blood decreases during irradiation. Desoxyribonuclease was found in the urine of the irradiated dogs, but not in control dogs. There are 1 figure and 1 table.

ASSOCIATION: Instytut fiziologii im. O.O. Bohomol'tsya Akademii nauk URSR, Kiev (Institute of Physiology im. O.O. Bohomolets Academy of Sciences of the UkrSSR, Kiev)

SUBMITTED: July 15, 1961

Card 3/3

MAKARCHENKO, A.F., prof., akademik; MAN'KOVSKIY, N.B., prof.; ROYTRUB,
B.A., kand.biologicheskikh nauk (Kiyev)

Zonal electrophoresis of protein fractions, glyco- and
lipoproteins in some neuroinfections. Vrach.delo no.12:69-72
D '62. (MIRA 15:12)

1. Institut fizilogii imeni A.A.Bogomol'tsa AN UkrSSR.
(ELECTROPHORESIS) (PROTEINS) (DIENCEPHALON--DISEASES)

MAKARCHENKO, A.F.; DINABURG, A.D.; PASTERNAK, M.N.; MEL'NICHENKO, A.V.

Experimental allergic encephalomyeloradiculitis. *Zhur. nevr.*
i psikh. 62 no.3:361-366 '62. (MIRA 15:3)

1. Otdel nevrologii i neyrofiziologii ~~Instituta~~ fiziologii
imeni A.A. Bogomol'tsa (dir. - prof. A.F. Makarchenko) AN USSR,
Kiyev.

(NERVES, SPINAL---DISEASES)
(ENCEPHALOMYELITIS) (ALLERGY)

MAKARCHENKO, A.F.; DINABURG, A.D.; ROYTRUB, B.A.; LAUTA, A.D.

Clinical aspects and pathogenesis of diencephalitis of influenzal
etiology. Zhur.nerv.i psikh. 62 no.6:825-832 '62. (MIRA 15:11)

1. Otdel nevrologii i neyrofiziologii Instituta fiziologii imeni
A.A.Bogolom'tsa (dir. - prof. A.F.Makarchenko) AN UkrSSR, Kiyev.
(DIENCEPHALON--DISEASES)
(INFLUENZA)

MAKARCHENKO, A.F., akademik, otv. red.; SIROTININ, N.N., zam. otv. red.;
KOLPAKOV, Ye.V., prof., red.; LAUER, N.V., doktor med. nauk,
red.; GUREVICH, M.I., doktor med. nauk, red.; KOLCHINSKAYA,
A.Z., kand. med. nauk, red.; YANKOVSKAYA, Z.B., red. izd-va;
BEREZOVSKAYA, D.N., tekhn. red.

"Oxygen deficiency; hypoxia and adaptation to it] Kislorod-
naia nedostatochnost'; gipoksiia i adaptatsiia k nei. Kiev,
Izd-vo AN USSR, 1963. 609 p. (MIRA 17:2)

1. Akademiya nauk URSR, Kiev. Instytut fiziologii. 2. Akademiya
nauk Ukr. SSR (for Makarchenko). 3. Deystvitel'nyy chlen AMN
SSSR (for Sirotinin).

MAKARCHENKO, Aleksandr Fedorovich; DINABURG, Anna Davidovna;
GESHEL', L.A., red.; YANKOVSKAYA, Z.B., red.

[Influenza and the nervous system] Gripp i nervnaia si-
stema. Kiev, Izd-vo AN USSR, 1963. 314 p. (MIRA 17:6)

MAKARCHENKO, A.P. [Makarchenko, A.P.]

In the eye of the great man, the great man. The great man
12-150 (12-150) 12-150

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001031420010-9"

MAKARCHENKO, A.F. [Makarchenko, O.F.]; ZLATIN, R.S.

Current philosophical problems in the reflex theory. *Fiziol.*
zhur. [Ukr.] 9 no.5:569-578 S-O'63 (MIRA 17:4)

1. Institut fiziologii im. Bogomol'tsa AN UkrSSR, Kiyev.

MAKARCHENKO, A.F. [Makarchenko, O.F.]; GORBACH, M.L. [Horbach, M.L.]

Some philosophical problems of the relation between physiology
and cybernetics. Fiziol. zhur. [Ukr.] 9 no.6:707-715 N-D '63.

(MIRA 17:8)

1. Institut fiziologii im. Bogomol'tsa AN UkrSSR, Kiyev.

MAKARCHENKO, A.F.; DINABURG, A.D.

The role of influenza as a provocative factor in the development and exacerbation of diseases of the nervous system.

Zh. nevropat. psikhiat. Korsakov 63 no.3:364-368 '63

(MIRA 17:1)

1. Otdel nevrologii i neyrofiziologii imeni A.A. Bogomol'tsa
(dir. - prof. A.F. Kamarchenko) AN UkrSSR, Kiyev.

MAKARCHENKO, A.F. [Makarchenko, O.F.]; DINABURG, A.D. [Dynaburg, H.D.];
GORBACH, N.L. [Horbach, M.L.]; SAYENKO-LYUBARSKAYA, V.F. [Saienko-
Liubars'ka, V.F.]; LAUTA, A.D.; YERYSH, A.I. [Ierysh, A.I.]; KLEBANOVA,
L.B.

Clinicophysiological characteristics of diencephalic pathology.
Fiziol. zhur. [Ukr.] 10 no.3:371-378 My-Je '64. (MIRA 18:9)

1. Otdel nevrologii i neyrofiziologii Institut fiziologii im. A.A.
Bogomol'tsa AN UkrSSR, Kiyev.

MAKARCHENKO, A.F. [Makarchenko, O.F.]

Results of and prospects for the development of human and animal
physiology in the Ukraine. Fiziol. zhur. [Ukr.] 10 no.3:287-300
My-Je '64. (MIRA 18:9)

1. Institut fiziologii im. A.Bogomol'tsa AN UkrSSR, Kiyev.

MAKARCHENKO, A.F. [Makarchenko, A.F.]; KOLCHYN'S'KA, A.Z. [Kolchyns'ka, A.Z.]

Development of A.F. Bogomolets' ideas concerning human physiological aging and longevity in the Ukraine. Fiziol. zhur. [Ukr.] 11 no.1:3-9 Ja-F '65. (MIA 18:7)

1. Institut fiziologii im. Bogomoletsa AN UkrSSR, Kiev.

L 29519-65

ACCESSION NR: AR5005904

8/0020/65/160/003/0731/0733

AUTHOR: Makarchenko, A. F. (Academician AN UkrSSR); Roytrub, B. A.; Zlatin, R. S.

TITLE: Changes in the macrostructure of blood proteins as a result of CNS excitation

SOURCE: AN SSSR. Doklady, v. 160, no. 3, 1965, 731-733

TOPIC TAGS: CNS excitation, blood protein, caffeine, hemodynamics, blood biochemistry

ABSTRACT: Since macrostructures of proteins are naturally very labile and thus sensitive to functional changes in the central nervous system, the authors studied changes in the macrostructures of blood proteins from 6 dogs given 0.5--1.0-g doses of caffeine. The conditioned salivary reflexes were studied, and venous blood was taken 10--15 min following investigation of the reflexes of each dog. Caffeine was administered 30 min prior to investigation of reflexes. The experiments were conducted for 7--10 days. The investigations revealed that there was a definite parallelism between changes in the total positive conditioned reflexes and indices of the macrostructure of blood protein both during a normal CNS state and during an excited state. An investigation of the interaction of blood proteins with ascorbic

Card 1/3

L 29519-65

ACCESSION NR: AP5005964

acid showed that maximum changes in the absorption ability of blood proteins took place at maximum excitation. This phenomenon was far more pronounced when adrenalin was added to the investigated blood in vitro. It was also shown that the maximum increase in total positive conditioned reflexes coincided with a peak in the differences of indices in the reaction of methyl orange in untreated and heated blood. In different dogs this dependence was either direct or inverse. In determining the light dispersion in a buffered solution of serum proteins (pH 3.5), it was found that at maximum excitation, the percent of light filtration dispersed within the wave limits of 425-600 mμ compared to the original value. This indicated an increase in the light dispersion which was associated with a corresponding decrease in the solubility of protein molecules. Maximum excitation also coincided with a maximum intensity in the bonding of serum proteins with Congo red. In studying the reaction of blood proteins to adrenalin added in vitro, it was found that at maximum excitation, the bonding ability of proteins relative to adrenalin was lowered. The addition of adrenalin to untreated serum increased the light dispersion in a protein solution, the greatest intensity of which coincided with maximum excitation. The electrokinetic nature of proteins was studied electrophoretically. Both untreated and heated blood were studied. In 4 out of 5 dogs electrophoretic thermostability of proteins was observed in heated blood, compared to their bonding

Card 2/3

I 29519-65

ACCESSION NR: AP5005904

0
nature under normal conditions. This phenomenon was also observed as a result of excitation not associated with the administration of caffeine. In conclusion the experiments showed that multiple changes occur in the macrostructure of peripheral blood proteins as a result of CNS excitation. These macrostructure changes may reflect the interaction of blood proteins with CNS metabolites such as adrenalin, acetylcholine, etc. Orig. art. has: 4 figures. [CD]

ASSOCIATION: Institut fiziologii im. A. A. Bogomoletsa Akademii nauk UkrSSR
(Institute of Physiology, Academy of Sciences UkrSSR)

SUBMITTED: 08Jul64

ENCL: 00

SUB CODE: LS

NO REF SOV: 014

OTHER: 001

ATD PRESS: 31.97

Card 3/3

MAKARCHENKO, A.F.; BOYTSKIY, P.A.; ZLATAV, R.S.

Effect of an excitatory process in the cerebral cortex on the macrostructure of proteins in the peripheral blood. *Izv. vys. nerv. deiat.* 15 no.5:839-845 S-C 165.

(MIRA 18:11)

1. Institut fiziologii im. A.A. Bogomoletsa AN UkrSSR, Kiev.

MAKARCHENKO, A.F., akademik, *stv. red.*; BOGACH, F.G., prof., *red.*;
TROSHIKHIN, V.A., prof., *red.*; GUREVICH, M.I., doktor *med.*
nauk, red.; KOLCHINSKAYA, A.Z., doktor *biol. nauk, red.*;
PUTILIN, N.I., prof., *red.*; OLEYNIK, I.F., kand. *biol. nauk,*
red.; PRESHCHENSKIY, H.H., kand. *vet. nauk, red.*; SNEZHIN,
M.I., *red.*

[Regulation of vegetative functions] *Regulatsiia vegetativ-*
nykh funktsii. Kiev, Naukova dumka, 1965. 246 p.

(MIRA 18:8)

1. Akademiya nauk *Ukr.*, Kiev. A. AN *Ukr. SSR* (for Makarchenko).
3. Institut fiziologii im. A.A. Bogomoletsa AN *Ukr. SSR* (for Putilin).

IVANOV, Vadim Nikolayevich, akademik; MAKARCHENKO, A.E., prof.,
akademik, otv. red.; BURCHINSKIY, G.I., prof., red.;
PELESHCHUK, A.P., prof., red.; PUTILIN, N.I., prof., red.;
REVUTSKIY, Ye.L., st. nauchn. sotr., red.; SKOPICHENKO,
N.F., dots., red.; CHEBOTAREV, D.F., prof., red.;
OMEL'CHENKO, A.T., st. nauchn. sotr., red.; MATYASHEVSKAYA,
T.I., red.

[Selected works] Izbrannye trudy. Kiev, Naukova dumka,
1965. 334 p. (MIRA 18:8)

1. Deystvitel'nyy chlen AMN SSSR (for Ivanov). 2. AN Ukr. SSR
(for Makarchenko, Ivanov). 3. Chlen-korrespondent AN SSSR
(for Chebotarev).

CHERNYSHEV, A.M.; GESS, B.A.; KANAVETS, P.L.; MELENT'YEV, P.N.;
KHODAK, L.Z.; SOKOLOV, G.A.; BORISOV, Yu.I.; CHERNYKH, V.I.;
Prinimali uchastiye: VAVILOV, N.S.; MAKARCHENKO, V.G.;
KISELEV, G.P.; VOLNISTOVA, R.A.; MOREYEVA, G.F.

Testing granules made by the method of chemical catalysis
in a laboratory shaft furnace. Trudy IGI 22:70-78 '63.
(MIRA 16:11)

L 25310-65 EWT(m)/EWP(t)/EWP(b) IJP(c) RIM/JD/JM

ACCESSION NR: AP5004248

8/0021/65/000/001/0056/0058

AUTHOR: Paderno, Yu. B.; Honcharuk, O. B. (Goncharuk, A. B.); Makarchenko, V. M.
(Makarchenko, V. M.)

TITLE: Some physical properties of lanthanum digermanide

SOURCE: AN UkrRGR, Dopovidi, no. 1, 1965, 56-58

TOPIC TAGS: lanthanum digermanide, composition, microhardness, resistivity, thermal emf, work function, temperature dependence, semiconducting property

ABSTRACT: Lanthanum digermanide containing 45.4% La and 54.4% Ge, sintered and subsequently melted in an argon atmosphere, had a room-temperature resistivity of 659 $\mu\text{ohm}\cdot\text{cm}$, a microhardness of 375 kg/mm^2 , and a thermal expansion coefficient of $8.9 \cdot 10^{-6}/\text{deg}$ in the 0--800C range. A transition from impurity to intrinsic conductivity occurred at 500--600C with a simultaneous change in the thermal emf value from positive to negative, which is characteristic of materials with negative current carriers. The carrier activation energy was about 0.3 ev. Thus, lanthanum digermanide possesses semiconductor properties which in combination with a high melting temperature (about 1500C) make it a prospective material for semiconductor devices operating at high temperatures. Orig. art. has: 3 figures. [MS]

Card 1/2

L 25310-65

ACCESSION NR: AP5004248

ASSOCIATION: Instytut problem materialoznavstva AN URSR (Institute of the Problems
of the Science of Materials, AN UkrSSR)

SUBMITTED: 16Dec63

ENCL: 00

SUB CODE: 10, ss

NO REF GOV: 003

OTHER: 002

ATD PRESS: 3181

Card 2/2

CHEKRENEV, A.I., dr. tekhn. nauk, prof.; BALANIN, V.V., kand. tekhn. nauk,
dotsent; SHCHERBAKOVA, R.I., kand. tekhn. nauk; MAKARCHUK, N.Ye,
inzh.

Freezing of the Northern Dvina River in the autumn of 1961 and
the effect of autumn ice jamming on the process of its opening
in 1962. Trudy LVT no.46866-71 '63 (MIRA 17:1)

MAKARCHUK, V.N.; MISHCHENKO, V.M.

Experimental investigation of flow structure before the pump wheel
of a hydraulic torque converter. Sbor.trud.Lab.gidr.mash.AN URSSR
no.10:146-152 '62. (MIRA 15:12)
(Oil-hydraulic machinery) (Hydrodynamics)

ALEKSAPOL'SKIY, D.Ya., kand.tekhn.nauk; GALYNKINA, L.D., inzh.; MAKARCHUK, V.N.,
inzh.; MISHCHENKO, V.M., inzh.

Backing run torque converter for marine reverse gear. Sudostroenie
29 no.7:23-27 J1 '63. (MIRA 16:9)
(Marine engineering)

GALYNKINA, L. L., inzn; MAKARCHUK, V. N., inzn.

Experimental study of the power characteristics of the flow of
a reverse running hydraulic torque converter. Izv. vyzn. issled.
zav.; energ. 7 no. 4:93-98 My '64. (MIRA 1964)

1. Laboratoriya gidravlicheskikh mashin AN Ukrainsk. Inzhenerna
Uchenym Sovetom laboratorii.

MAKARCHUK, V.N., inzh.

Results of the experimental tests of the operating process of a reversed hydraulic torque converter. Izv. vys. ucheb. zav.; energ. 7 no.8:89-98 Ag '64. (MIRA 17:12)

1. Khar'kovskiy filial instituta mekhaniki AN UkrSSR.

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001031420010-9

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001031420010-9"

MAKARCHUK, V.N.

Calculating the hydraulic torque conversion of a marine gas
turbine unit. In: Izv. Akad. Nauk SSSR Tekhn. Fiz. 1974, No. 1, p. 11-12.
(MIRA 1974, 10)

ALEKSAPOL'SKIY, D.Ya., kand.tekhn.nauk, dotsent; MAKARCHUK, V.N., inzh.

Velocity field in the interwheel gap of a two-reactor reverse
operating hydraulic torque converter. Izv.vys.ucheb.zav.; energ.
8 no.3:96-102 Mr '65. (MIRA 18:4)

1. Khar'kovskiy politekhnicheskoy institut imeni V.I.Lenina (for
Aleksapol'skiy). 2. Khar'kovskiy filial Instituta mekhaniki AN
UkrSSR (for Makarchuk). Predstavlena kafedroy gidravlicheskih
mashin Khar'kovskogo politekhnicheskogo instituta.

MAKARCHUK, V.N., inzh.

Internal processes in a reverse two-reactor hydraulic
torque converter. Vest.mashinostr. 46 no.1:28-31 Ja '66.
(MIRA 19:1)

MAKARCHUK, V.N., inzh.

Results of an experimental investigating of hydraulic losses
in two-reactor reverse-stroke hydrodynamic torque converters.
Gidr. mash. i gidr. no. 11166-171 '65. (MIRA 18:12)

1. Khar'kovskiy filial Instituta mekhaniki AN UkrSSR.

MAKARCZYK, Z.

The problems of motorization and road transportation. p.118
(MOTORYZACJA, Vol. 12, No. 5, May 1957, Warsaw, Poland)

SO: Monthly List of East European Accessions (FEAL) LC, Vol. 6, No. 9, Sept. 1957, Uncl.

K, L J

Category: Czechoslovakia / Physical Chemistry
Thermodynamics. Thermochemistry. Equilibrium. Physico-
chemical Analysis. Phase transitions.

B-8

Abs Jour: Referat Zhur-Khimiya, No 9, 1957, 29960

Author : Machacek Z., Lanikova J. Makarek

Inst : not given

Title : Solubility of Vinyl Chloride in Organic Solvents

Orig Pub: Chem. listy, 1954, 48, No 2, 276-279

Abstract: Determination of the solubility of $\text{CH}_2=\text{CHCl}$ in tetrahydrofuran, $\text{HCON}(\text{CH}_3)_2$, CH_2CHCl_2 and methyl cyclohexanone, by means of a special apparatus and in accordance with the method of a liquid film passing through a gas. The results obtained at 20, 30, 40, 50° are tabulated.

Card : 1/1

-81-

MAKARENIYA, A.A., kand. khim. nauk; ZAVLIN, P.M., kand. khim.
nauk; RAZUMOVSKIY, V.V., prof., red.

[Chemistry textbook] Uchebnoe posobie po khimii. Lenin-
grad, Leningr. elektrotekhn. in-t sviazi, 1964. 134 p.
(MIRA 18:7)

MAKARENKO, A.A., inzh.

Modernization of liquid-fuel torches **used** in metal
cutting with low-pressure oxygen. Svar. proizv. no.2:
35-37 Ag '65. (MIRA 18:9)

1. Slavyanskaya mashinostroitel'nyy zavod "Kokshetau".

MAKARENKO, A.A. (pos. Barmashino, Tselinnyy kray)

In Kazakhstan. Priroda 51 no. 6: 128 Jan '62.
(Kazakhstan, Frost)

(MIRA 14 6)

GOL'DBERG, A.I., dotsent; MAKARENKO, A.A.; KONDRATSKAYA, G.F.; KRIKUNENKO, G.V.

Therapeutic and prophylactic effects of various doses of vitamin B₁₂
in megaloblastic and macrocytic forms of agastic anemias. Terap.arkh.
31 no.8:17-21 Ag '59. (MIRA 12:11)

1. Iz kafedry gosspital'noy terapii (zav. - prof. A.A. Kovalevskiy) i
kafedry patofiziologii (zav. - prof. D.I. Gol'dberg) Tomskogo meditsin-
skogo instituta.

(VITAMIN B₁₂ therapy)

(ANEMIA, HYPERCHROMIC therapy)

(GASTERCTOMY complications)

L 8382-65 EWT(m)/EPF(r)/EWP(j) Pc-4/Pr-4/Pa-4 RPL RM

ACCESSION NR: AP4048784

S/0240/64/000/007/0031/0034

AUTHOR: Makarenko, A. A. B

TITLE: Improvement of hygienic conditions of labor in the production of alpha-aminoanthraquinone

SOURCE: Gigiyena i sanitariya, no. 7, 1964, 31-34

TOPIC TAGS: alpha-aminoanthraquinone, anthraquinone, alpha-sulfonic acid, mercury, industrial hygiene

Abstract: At present alpha-aminoanthraquinone is produced from anthraquinone alpha-sulfonic acid. In the synthesis of the latter from anthraquinone, mercury is used as a catalyst. An investigation conducted at an industrial plant where this method of producing alpha-aminoanthraquinone is applied indicated that a dangerous amount of contamination with mercury existed at the plant and that some workers had symptoms of mercury poisoning. Analyses of urine showed that some workers were poisoned with mercury and that all of

Card

1/2

L 8382-65

ACCESSION NR: AP404⁸784

them had resorbed a certain amount of mercury. It is recommended that the use of mercury be eliminated by producing alpha-aminoanthraquinone from alpha-nitroanthraquinone.

ASSOCIATION: Kafedra gigiyeny*truda Pervogo Moskovskogo ordena Lenina meditsinskogo instituta im. I. M. Sechenova (Department of Labor Hygiene, First Moscow Order of Lenin Medical Institute), Novosibirskiy nauchno-issledovatel'skiy sanitarny*y institut (Novosibirsk Scientific Research Sanitation Institute)

SUBMITTED: 08Jan64

ENCL: 00

SUB CODE: GC, LS

NO REF SOV: 005

OTHER: 000

JPRS

Card 2/2

MAKARENKO, A.A. (Cherkassy)

Advanced form of the organization of continuous production lines.
Shvein.prom. no.6:4-6 N-D '62. (MIRA 15:12)
(Assembly-line methods)
(Cherkassy—Clothing industry)

MAKARENKO, A.A., inzh.

Automatic welding of the external joints in the shell of a
pitch-coke gas collector. Svar.proizv. no.8:31-32
Ag '60. (MIRA 13:7)

1. Slavyanskiy zavod koksokhimicheskogo oborudovaniya.
(Gas holders--Welding)

MAKARENKO, A.A., inzh.

Eight-spot welding machine for the welding of wire fabric filter
elements. Svar. proizv. no. 4:40-41 Ap '61. (MIRA 14:3)

1. Slavyanskiy mashinostroitel'nyy zavod "Koksokhimmash."
(Electric welding--Equipment and supplies)
(Wire netting--Welding)

S/135/62/000/005/004/007
A006/A101

AUTHOR: Makarenko, A. A., Engineer

TITLE: Automatic welding of 1X18-19T (1Kh18N9T) steel chemical equipment

PERIODICAL: Svarochnoye proizvodstvo, no. 5, 1962, 21 - 24

TEXT: Information is given on equipment and technology of submerged-arc automatic-welding chemical equipment. This process is carried out on a multi-purpose unit with an automotive pillar-type trolley (see figure). It is equipped with roller stand I, pillar-trolley platform II, column with balcony III and welding equipment IV. The roller stand is intended to rotate long cylindrical parts of 600 - 3,000 mm in diameter up to 10 ton weight. The trolley platform moves the column with the welding device along the roller stand. The welding equipment consists of tractor АДС-1000-2 (ADS-1000-2) with a distributing device, welding generator ГСМ-1000 (PSM-1000) with ballast rheostats ПБ-300 (PB-300). The welding tractor is power-supplied from three parallel-connected ballast rheostats, which are used for manual welding. This scheme of connecting the tractor to the generator makes it possible to use the generator for both auto-

Card 1/2

Automatic welding of...

3/135/62/000/005/004/007
A006/A101

matic and manual welding. In automatic welding, wire C_t-0X18H9 (Sv-0Kh18N9) or C₅-1X18H9T (Sv-1Kh18N9T) and flux AH-25 (AN-26) are used. Detailed welding conditions are tabulated. The welding speed of longitudinal and circular joints may vary within 19 - 77 m/hour. The operational speed of the trolley and the roller stand is 11 m/min. The weld joints were subjected to a number of tests and showed satisfactory properties. Due to the higher heating and cooling rate in automatic welding, the corrosion resistance of the joints was raised. The assimilation of the new method at the Slavyansk Machinebuilding Plant "Koksokhimmash" reduced labor consumption and production costs. There are 4 tables and 1 figure.

ASSOCIATION: Slavyanskiy mashinostroitel'nyy zavod "Koksokhimmash" (Slavyansk Machinebuilding Plant "Koksokhimmash")

Card 2/3

MAKARENKO, A.A.

Accretion of root systems in pine forests of the Kazakh Peneplain.
Agrobiologiya no.6:939-941 N-D '62. (MIRA 16:1)

1. Kazakhskiy nauchno-issledovatel'skiy institut lesnogo
khozyaystva, g. Shchuchinsk, TSelinnyy kray.
(Kazakhstan--Pine) (Roots (Botany))

MAKARENKO, A.A.

Accretion of the territory of the Republic of Kazakhstan to the northern Kazakhstan. Agribusiness no. 4: 13-14. (1984)

1. Kazakhskiy nauchno-issledovatel'skiy institut imeni g. Shchegoleva, g. Shchegolevsk, Tselinnyy ray.

KALAMENC, A. I.

CPM1. KALAMENC, A. I. Generalized for air and land operations in the
Soviet Union. In the Soviet Union, the air and land operations are
Soviet Air Force. The air force is the main force of the Soviet Union.
The air force is the main force of the Soviet Union.

MAKARENKO, A. I.

Laparotomy technic. Khirurgiia, Moskva. no. 9:75-76 Sept.
1950. (CLML 20:1)

1. Lt-Col, Medical Corps and Candidate Medical Sciences.

MAKARENKO, A.I.

Twenty-seventh All-Union Congress of Surgeons. Voen.-med.zhur.
no.91-93 Ag '60. (MIRA 14:7)
(SURGERY--CONGRESSES)

TROSHIN, N.F., inzh.; MAKARENKO, A.K., inzh.

Determining the optimum length of time for the cooling
of molds after casting. Stal' 23 no.2:187-188 F '63.
(MIRA 16:2)

1. Zaporozhskiy staleplavil'nyy zavod.
(Ingot molds—Cooling)

MAKAPENKO, A.I.

Organize the wintering of cattle efficiently. Veterinariia 41
no.1-10-12 Ja 1955. (MIRA 18.2)

1. Glavnyy veterinarnyy vrach Beloserkovskogo rayona, Kievskoy
oblasti.

MIKHOVICH, Anatoly Ivanovich, (b. 1914, U.S.S.R.);
LASS ENK, Alexander, (b. 1914, U.S.S.R.);
REUK, Petr, (b. 1914, U.S.S.R.);
Seltman, (b. 1914, U.S.S.R.);
Lask, (b. 1914, U.S.S.R.);
LASK, (b. 1914, U.S.S.R.);
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